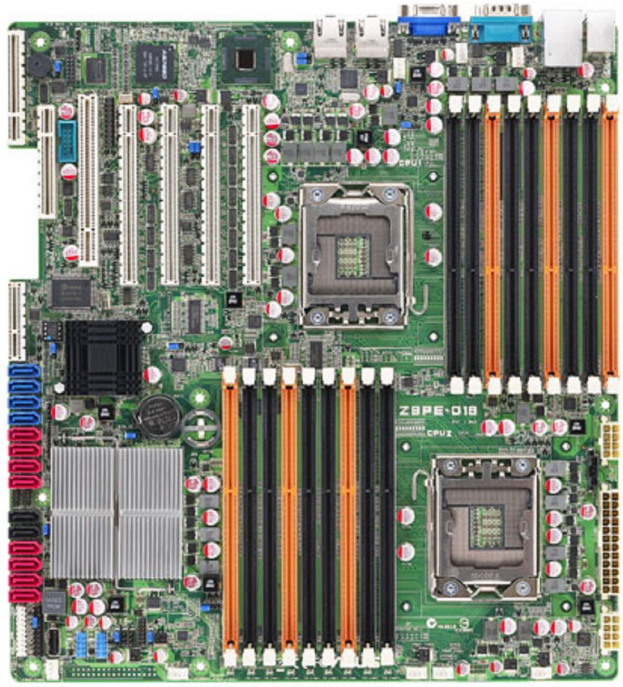

Z8PE-D18
18 DIMMs & Slot 6 in Standard EEB

The ASUS Z8PE-D18 server motherboard delivers significant computing capability with 18 DIMM slots and high expandability with 6 expansion slots to cater to the most demanding tasks and upgrades in the future.

18 DIMMs & Slot 6 in Standard EEB

Standard EEB with 18 DIMMs and Riser Card Slot

Z8PE-D18 is designed in EEB (12” x 13”) form factor, with 18 memory DIMMs with traditional riser card slot all on the same board. This board will offer you highest memory capacity without source for proprietary chassis & riser solution.

ASUS PIKE Supported

ASUS PIKE (Proprietary I/O Kit Expansion) is designed to break the limitation with 2 key advantages:

- Provide flexible SAS storage add-on card selection
- Board edge design: locate PIKE expansion at the edge of the board for full height card support when PIKE is installed

Dual Use for Server and Workstation with Flex-E Technology and MIO Card

The ASUS Flex-E technology provides the flexibility to auto-switch between 2 true PCI-E x16 Link (support 2 double deck graphic cards) or 1 PCI-E x16 Link & 2 PCI-E x8 Link (for I/O expansion).

The MIO audio card offers enhanced signal-to-noise ratio in a 7.1 surround channel setup to deliver exhilarating surround sound for professional usage.

Optimized for Virtualization, VMDq Supported

On-board LAN supports Intel VMDq Technology which offloads CPU utilization and decreases latency to improve throughput for virtual machines. It benefits users by enhancing performance in virtualization environments.

Optional ASMB4-iKVM Upgrade Kit for Easy Troubleshooting

The optional ASMB4-iKVM provides remote real-time full control access to the system based on BIOS-level by keyboard, video monitor and mouse (KVM over Ethernet) from any local computer anywhere, anytime.

High Quality Components for Greater System Reliability

ASUS is the first company to phase in 6-Phase CPU power, 3-Phase memory power and All Ultra Long Life Solid capacitors on serverboard in the market. These features not only provide the support for high-end 130W CPU, but also deliver highly efficient and reliable operations.

In addition, Z8PE-D18 also features EPU (Energy Processor Unit) power saving design, virtualization, CrossFire support and so on, serving as an ideal choice for mission critical applications.

Specifications

Processor / System Bus	2 x Socket 1366 Intel® Xeon® W5500 Series (130W) Intel® Xeon® X5500 Series (95W) Intel® Xeon® E5500 Series (80W) Intel® Xeon® L5500 Series (60W/38W) QPI 4.8 /5.86 /6.4 GT/s
Core Logic	Intel® 5520 chipset IOH Intel® ICH10R I/O Controller
Form Factor	SSI EEB 3.61 12 " x 13"
ASUS Features	FAN speed control Rack Ready (Rack and Pedestal dual use) ASWM2.0
Memory	**Total Slots:** (3-channel per CPU, 9-DIMM per CPU) 18 **Capacity:** (RDIMM)**, Maximum up to 48GB (UDIMM) Maximum up to 144GB **Memory Type:** DDR3 800/1066/1333 Reg DIMM/ Unbuffered DIMM with ECC **Memory Size:** 1GB 2GB 4GB 8GB * (RDIMM); 1GB 2GB 4GB (UDIMM)
Expansion Slots	**Total PCI/PCI-X/PCI-E Slots:** 6 **Slot Location 1: 1 * PCI-E x8 (Gen1 x4 Link) (Auto disable if PIKE slot is occupied)** **Slot Location 2: 1 * PCI32** **Slot Location 3: 1 * PCI-E x16 (Gen2 x16 Link) (Auto switch to x8 Link if slot 4 is occupied)** **Slot Location 4: 1 * PCI-E x16 (Gen2 x8 Link)** **Slot Location 5: 1 * PCI-E x16 (Gen2 x16 Link) (Auto turn off if slot 6 is occupied)** **Slot Location 6: 1 * PCI-E x16 (Gen2 x16 Link for 1U Full-Height/Full-Length Card) (Auto turn off if slot 5 is occupied, MIO supported)** **Additional Slot 1: 1 * PIKE Slot for Stroage expansion**
Storage	**SATA Controller:** Intel® ICH10R: 6 SATA2 300MB/s ports Intel Matrix Storage (for Windows only) (Support software RAID 0, 1, 10 & 5) LSI® MegaRAID (for Linux/Windows) (Support software RAID 0, 1, 10) **SAS Controller:** Optional: ASUS PIKE 1064E 4-port SAS RAID card Asus PIKE 1068E 8-port SAS RAID card Asus PIKE 1078 8-port SAS HW RAID card ASUS PIKE 6480 8-port SAS RAID card
Networking	**LAN:** 1 * Dual Port Intel 82576EB (VMDq) + 1 * Mgmt LAN
Graphic	**VGA:** Aspeed AST2050 8MB
Onboard I/O Connectors	3 x PSU Connector : 24-pin SSI power connector + 8-pin SSI 12V + 8-pin SSI 12V power connector 1 x Management Connector : Onboard socket for optional management card 3 (One for internal Type A USB connector) x USB Connectors (support 5 USB ports) 8 x Fan Header : 4-pin 2 x SMBus 1 x Chassis Intruder 2 x Front LAN LED 1x Serial Port Header

Rear I/O Connectors	1 x External Serial Port 2 x External USB Port 1 x VGA Port + 1 Management Port 2 x RJ-45 1 x PS/2 KB/Mouse
Management Solution	**Software:** ASWM2.0 **Out of Band Remote Management:** Optional ASMB4-iKVM for KVM-over-Internet
Monitoring	CPU Temperature FAN RPM
EMI	Europe (CE, EN55022 & EN55024) Australia (C-TICK) US (FCC, CFR47 Part 15, Class B)
Environment	**Operation temperature:** 10℃ ~ 35℃ / Non operation temperature: -40℃ ~ 70℃ **Non operation humidity:** 20% ~ 90% (Non condensing)
Accessories	Standard Gift Box Pack (1pcs per Carton): 6 x SATA Data Cables 1 x I/O Shield 1 x ASUS Mainboard Support CD 1 x User's Guide 2 x Thermal Sensor Cable Standard Bulk Pack (10pcs per Carton): 1 x I/O Shield 1 x ASUS Mainboard Support CD 1 x User's Guide
Product SKUs	Standard Gift Box Pack Standard Gift Box Pack with ASMB4-iKVM Standard Gift Box Pack with MIO Standard Bulk Pack Standard Bulk Pack with ASMB4-iKVM
Note	*Refer to ASUS Server AVL for latest update **Dual Rank 8GB Reg DIMM do not test yet